

CLAIMS

1. A speculative recording device (1200a) comprising:
profile extracting means (110) for extracting a user profile
5 (Pu) which indicates a preference of a user in viewing programs
based on an operation by the user;
program list managing means (106) for acquiring attributes
(IP) of a program;
speculation selecting means (111) for selecting a program
10 to be speculatively recorded based on the user profile (Pu) and
the attributes (IP) of the program;
storage managing means (107) for accumulating program data
(DP); and
speculative recording managing means (112) for erasing the
15 program data (DP) accumulated in the storage managing means (111)
when necessary and for recording program data (DP) selected by
the speculation selecting means (111).
2. The speculative recording device (1200b) according
to claim 1, wherein the program data (DP) accumulated in the storage
20 managing means (107) is in either one of a temporarily-stored state
and a permanently-stored state, the speculative recording managing
means (112) erases, among the program data (DP) accumulated in
the storage managing means (107), a piece of program data (DP)
in the temporarily-stored state when necessary, and records the
25 program data (DP) selected by the speculation selecting means (111)

in the temporarily-stored state, and the device comprises user interface controlling means (S603 to S605) for converting a state of the program data accumulated in the storage managing means (107) between the temporarily-stored state and the permanently-stored state in accordance with a request from the user.

3. The speculative recording device (1200c) according to claim 2, further comprising chasing means (S705) for, after beginning a process of accumulating a currently-broadcast program into a file in the temporarily-stored state from a record starting timing to an end of the program, beginning to play back the file at a playback starting timing.

4. The speculative recording device (1200d) according to claim 1 or claim 2, wherein the user interface controlling means inputs a record starting timing and a playback starting timing from the user, and the device comprises chasing means for, after beginning a process of accumulating a currently-broadcast program into a file in the temporarily-stored state from the record starting timing to an end of the program, beginning to play back the file at the playback starting timing.

5. The speculative recording device (1200e) according to claim 2, further comprising communication means (901) for communicating with a network (912) connected with one or more remotely-located program recording devices (1200er, 912), wherein when the user interface controlling means performs an operation of converting a state of a piece of program data selected

by the user from among programs accumulated by the remotely-located receiving devices and the program data (DP) accumulated in the storage managing means (107) into the permanently-stored state in accordance with a request from the user while utilizing the communication means (901), if the piece of program data selected
5 by the user is a piece of program data accumulated in one of the remotely-located recording devices (1200er), the selected piece of program data is taken into the storage managing means (107) via the communication means (901) to be converted into the
10 permanently-stored state.

6. The speculative recording device (1200f) according to claim 5, wherein when there is a program data file which is program data (DP) accumulated in one of the remotely-located program recording devices (1200fr) and which is of a program
15 identical to a currently-broadcast program to be accumulated by the chasing means, the chasing means starts, by utilizing the communication means (901), playing back the identical file at the playback starting timing at the record timing (local record starting time TrL).

20 7. The speculative recording device according to claim 3, wherein the chasing means starts playing back the identical file at the playback starting timing and, at a time point of the record starting timing or later, changes the played-back file from the identical file to a file conducted for the storage managing means.

25 8. The speculative recording device (1200g) according

to claim 1, comprising:

communication means (901) for communicating with a network (912) connected with one or more remotely-located program recording devices (1200gr, 912);

5 view request inference means (111) for, based on the user profile (Pu) and the attributes (IP) of the program, creating a speculation score (Ps) indicating a degree (Ps) of a view request of the user for the program;

speculation selecting means (111) for selecting a program
10 to be speculatively recorded based on the speculation score (Ps);

speculatively-to-be-recorded program identification means (106) for creating speculatively-to-be-recorded program information (Ip) identifying the selected program which is to be speculatively recorded; and

15 speculative recording request means (113, 901) for giving a request to one of the remotely-located program recording devices (1200gr) to perform a preprogrammed recording of the selected program, with the speculatively-to-be-recorded program information (Ip) and speculation score (Ps) of the selected
20 program.

9. The speculative recording device (1200g) according to claim 1, comprising:

communication means (901) for communicating with a network (912) connected with one or more remotely-located program recording
25 devices (1200g, 912);

view request inference means (111) for, based on the user profile (Pu) and the attributes (IP) of the program, creating a first speculation score (Ps(1200g)) indicating a degree of a view request of the user for the program;

5 speculation selecting means (111) for selecting a program to be speculatively recorded based on the speculation score (Ps);

 speculatively-to-be-recorded program identification means (111) for creating first speculatively-to-be-recorded program information (Ip) identifying the selected program which is to be
10 speculatively recorded;

 record preprogramming request receiving means (901, 112) for receiving, along with program identification information (IR) identifying at least one program and a second speculation score (Ps(1200g)) indicating a degree of the view request for the program,
15 a preprogrammed recording request of the program from one of the remotely-located program recording devices (1200g); and

 preprogrammed recording program selecting means for determining a program of which a preprogrammed recording is to be performed based on the first speculation score and the second
20 speculation score when it is impossible to record the program of which a preprogrammed recording was requested and the program to be speculatively recorded simultaneously.